

## ABSTRACT

It aims at suppressing power consumption of a transmission system amplifier and increasing a communication time period by controlling operation characteristics of the transmission system amplifier, based on a maximum transmission power value required at a transmission position of the mobile station 100. The base station 900 monitors the transmission position and reception quality of the mobile station 100. The maximum transmission power required at the transmission position is calculated by statistics processing or prediction. Based on this, the mobile station 100 controls the operation characteristics of the amplifier in order to output the required maximum transmission power.